Amendment dated June 3, 2005

## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims:**

- 1-14. (canceled)
- 15. (previously presented) The composition of matter of Claim 18, wherein the carrier is a pharmaceutically acceptable carrier.
- 16-17. (canceled)
- 18. (currently amended) A composition of matter comprising:
- a) a purified polypeptide, said polypeptide comprising a non-naturally occurring vascular endothelial cell growth factor (VEGF) variant of native VEGF wherein said variant differs from native VEGF in that said variant contains at least one non-conservative amino acid substitution-modification in the Kinase domain region (KDR) and/or FMS-like Tyrosine Kinase region (FLT-1), said substitution-modification(s) resulting in a modification of the binding affinity of the VEGF variant for said region(s) with respect to binding affinity of KDR and/or FLT-1 receptor(s) relative to the binding affinity of native VEGF for FLT-1 and/or KDR receptor(s); and
  - b) a carrier.
- 19-33. (canceled)
- 34. (currently amended) A composition comprising:
- a) an isolated polypeptide, the polypeptide comprising a variant of vascular native endothelial cell growth factor (VEGF) wherein the variant comprises at least one modification non-conservative amino acid substitution in the Kinase domain region (KDR) and/or FMS-like Tyrosine Kinase region (FLT-1), the substitution modification(s) resulting in a modification of the binding affinity of the VEGF variant for region(s) with respect to binding affinity of KDR

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and/or FLT-1 receptor(s) relative to the binding affinity of native VEGF for FLT-1 and/or KDR receptor(s); and

- b) a carrier.
- 35. (previously presented) The composition of claim 34, wherein the carrier is a pharmaceutically acceptable carrier.
- 36. (previously presented) The composition of claim 34, wherein the polypeptide comprises one or more amino acid changes in the FLT-1 region comprising amino acids 60 to 70 of native VEGF.
- 37. (previously presented) The composition of claim 34, wherein the polypeptide comprises one or more amino acid changes in the KDR region comprising amino acids 78 to 95 of native VEGF.
- 38. (previously presented) The composition of claim 34, wherein one or more of amino acids 63, 64, 67, 82, 84, or 86 of native VEGF are modified substituted.
- 39. (currently amended) The composition of claim 38, wherein amino acid 63 of native VEGF is modified substituted.
- 40. (currently amended) The composition of claim 38, wherein amino acid 64 of native VEGF is modified substituted.
- 41. (currently amended) The composition of claim 38, wherein amino acid 67 of native VEGF is modified substituted.
- 42. (currently amended) The composition of claim 38, wherein amino acid 82 of native VEGF is modified substituted.

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- 43. (currently amended) The composition of claim 38, wherein amino acid 84 of native VEGF is medifiedsubstituted.
- 44. (currently amended) The composition of claim 38, wherein amino acid 86 of native VEGF is modifiedsubstituted.
- 45. (currently amended) The composition of claim 38, wherein amino acids 63, 64, and 67 of native VEGF are modified substituted.
- 46. (currently amended) The composition of claim 38, wherein amino acids 82, 84, and 86 of native VEGF are medified substituted.
- 47. (currently amended) The composition of claim 38, wherein amino acids 63, 64, 67, 82, 84, and 86 of native VEGF are modified substituted.
- 48. (currently amended) The composition of claim 38, wherein the amino acid modification substitution is substitution by alanine.

49-59. (canceled)

- 60. (new) The composition of claim 34, wherein the binding affinity of the VEGF variant for FLT-1 is less than the binding affinity of native VEGF for FLT-1.
- 61. (new) The composition of claim 34, wherein the binding affinity of the VEGF variant for KDR is less than the binding affinity of native VEGF for KDR.
- 62. (new) The composition of claim 45, wherein the amino acid substitution comprises D63A, E64A, and E67A.
- 63. (new) The composition of claim 38, wherein the amino acid substitution comprises D63K.

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- 64. (new) The composition of claim 63, wherein the amino acid substitution -comprises D63K, E64R, and E67K.
- 65. (new) The composition of claim 45, wherein the amino acid substitution comprises E64N and L66S.

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- 66. (new) The composition of claim 46, wherein the amino acid substitution comprises R82E, K84E, and H86E.
- 65. (new) The composition of claim 46, wherein the amino acid substitution comprises R82A, K84A, and H86A.
- 66. (new) The composition of claim 37, wherein the amino acid substitution comprises R82N, I83L, and K84S.